PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP043360KR	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR 2005/000129	(Earliest) Priority Date (day/mont) 16 January 2004 (16.01.2	
Applicant	KTFREETEL CO., I	LTD.
This international search report has been according to Article 18. A copy is being		ching Authority and is transmitted to the applicant eau.
This international search report consists It is also accompanied by	of a total of sheets. a copy of each prior art document ci	ited in this report.
1. Basis of the report a. With regard to the language, the language in which it was filed, u	international search was carried out on the control of the control	on the basis of the international application in the item.
The internationa to this Authority	_	of a translation of the international application furnished
b. With regard to any nucleotic	de and/or amino acid sequence disc	closed in the international application, see continuation of this first sheet
2. Certain claims were fou	nd unsearchable (see continuation o	of this first sheet)
3. Unity of invention is lack 4. With regard to the title, the text is approved as sul	king (see continuation of this first sh	ect)
`	ned by this Authority to read as follow	ws:
		•
5 Wish regard to the obstract		
5. With regard to the abstract, the text is approved as su	bmitted by the applicant.	
the text has been established. The applicant may comments to this Author	, within one month from the date of t	is Authority as it appears in the continuation of this first mailing of this international search report, submit
	published with the abstract is Figure	No. <u>2</u>
as suggested by the appli		ngger a figure
	rity, because the applicant failed to string rity, because this figure better charac	
b. none of the figures is to be		

IAP11 Rec'd PCT/PTO 14 JUL 2006

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International application No. PCT/KR 2005/000129

Continuation of first sheet

10/586106

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

An antenna system measurer (110a, 110b, 110c) for a repeater and base station (10) measures powers of a progressive wave and a reflected wave of a transmit/receive antenna, and transmits measured results to a monitoring server (200) in a radio data format such as an SMS messages. The monitoring server (200) receives the radio data, identifies a repeater and a base station from sender information of the radio data, and calculates a VSWR based on the measured values. The VSWR is modified based on characteristics of the base station such as length and substance of feeders from a base station identifier corresponding to the sender information. According to the present invention, the remote antenna system is monitored in real-time without visits or installation fees, and a plurality of repeaters and base stations is managed in a combined manner.

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 2005/000129

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 7/34, H04B 17/00, G01R 29/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC⁷: H04Q, H04B, H01Q, G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 6 197 059 A (KOKUSAI ELECTRIC CO LTD) 19 October 1994 (19.10.1994) (abstract). [online] [retrieved on 2005-03-11]. Retrieved from: EPODOC PAJ Database. abstract, figures 1, 2 and their associated descriptions.	1-16
Α	GB 2 354 115 A (UNIVERSITY OF SURREY) 14 March 2001 (14.03.2001) abstract, figures 2-6 and their associated descriptions,	3, 5-9, 14-16
	page 1, line 5 - page 5, line 10, claim 1.	

Further documents are listed in the continuation of Bo	x C.
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See patent family annex.

Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the 16 March 2005 (
Name and mailing address of the I	SA/AT

Austrian Patent Office Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Date of mailing of the international search report 5 April 2005 (05.04.2005)

Authorized officer

KÖGL C.

Telephone No. +43 / 1 / 534 24 / 440

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 2005/000129

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001/320754 A (NEC COMMUNICATION SYST.) 3 April 2002 (03.04.2002) (abstract). [online] [retrieved on 2005-03-11]. Retrieved from: EPODOC PAJ Database. Abstract; Figs. 1-3 and their associated descriptions	1,2,4,10
A	JP 63 026 129 A (TOYO COMMUNICATION EQUIP) 5 July 1988 (05.07.1988) (abstract). [online] [retrieved on 16-03- 2005]. Retrieved from: EPODOC PAJ Database. abstract, figures 1-3 and their associated descriptions.	1-16
A	US 6 640 115 B1 (FUJIMOTO ET AL.) 28 October 2003 (28.10.2003) abstract, figure 1 and its associated description, column 2, line 30 - column 5, line 56, claim 1.	1
		-

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/KR 2005/000129

Patent document cited in search report		t document cited search report	Publication date	Patent family member(s)			Publication date
GB A 2354115	2001-03-14	JP WO EP AU	T Al Al A	2003509883T 0118908 1214753 6858200	2003-03-1 2001-03-1 2002-06-1 2001-04-1		
JP	A	20013207 54A2				none	
JP	A	6197059A 2		· ·		none	
JP	A	63026129 A2				none	